SCOPE OF WORK
Installation of Parking Slab – Phase 2
EMBASSY DJIBOUTI

1 PROJECT DESCRIPTION

1.1 This project work is to install an extension of the existing parking pad at the US Embassy Djibouti per this scope of work provided by the U.S. Embassy.

1.2 The project work includes:

1.2.1 Removal and disposal of existing round quartz aggregate (river rock) in the area of this scope of work.

1.2.2 Excavation of engineered backfill to grade and level the site for the new slab.

1.2.3 Backfilling and compaction with compactable crushed granite or limestone aggregate.

1.2.4 Installation of all form work.

1.2.5 Provision and installation of rebar.

1.2.6 Provision and installation of concrete.

1.3 Area of Project:

1.3.1 The area of the project for Phase 2 installation will be adjacent to and abutting the existing slab.

1.3.2 New slab will match existing slab elevation with applicable control joints.

1.3.3 Slab size will be approximately 21000mm on each side but matching existing slab in both elevation, size, and slope.

2 SCOPE

2.1 PRIOR TO IMPLEMENTATION

2.1.1 Submit to the CO and/or COR within 30 days of Notice to Proceed, document submittal package that includes:

2.1.1.1 Concrete mix design,

2.1.1.2 Installation design drawings stamped by a Professional Engineer,

2.1.1.3 Complete finalized Execution Plan including Critical Path Method (CPM) schedule,

2.1.1.4 G702/703 Application and Certificate for Payment with fully burdened task list.

2.2 IMPLEMENTATION

2.2.1 Surface Preparation

2.2.1.1 Remove the existing quartz aggregate and dispose.

2.2.1.2 Excavate to match grade and slope of existing pad.

2.2.1.3 Dispose of all excavation overburden.

2.2.1.4 Compact subgrade 95%.

2.2.1.5 Install 100-150mm (4-6") of crushed gravel as base for concrete.

2.2.2 Concrete Work

2.2.2.1 Concrete work and materials shall conform to ACI-301 and ACI-318 (latest edition)

2.2.2.2 Concrete shall develop 4000 psi compressive strength @ 28 days.

2.2.2.3 Bar reinforcement shall conform to ASTM A-615 Grade 60. Details and lap splices per ACI-315 and ACI-318 (latest edition).

2.2.2.4 Concrete shall be placed in a manner that will prevent segregation of concrete materials and the infiltration of soil and/or water into the mix.

2.2.2.5 Control joints shall be saw cut not later than 24 hours after concrete has been poured.

2.2.2.6 Control joints will be 5250mm O.C. in both directions.

2.2.2.7 Joints shall be filled with mastic joint filler.

2.2.2.8 Surface will be a light broom finish.

2.2.2.9 All slab edges will be chamfer corner (25mm x 25mm)

2.2.3 Concrete Design

2.2.3.1 Slab thickness is 203mm (8 inches) to match existing slab.

2.2.3.2 Use #4 rebar @ 300mm (12") O.C. for reinforcement.

2.2.3.3 All exterior slab edges will be 227mm (9 inches) deep by 300mm (12 inches) wide with two layers of #4 rebar 150mm (6 inches) O.C. with 100mm (4 inches) between layers.

2.2.3.4 The slab design is intended for light vehicular traffic.

2.2.3.5 The slab will support HS20-44 loading in emergencies.

2.2.3.6 Use AASHTO standard truck load pattern for design.

2.2.3.7 Design Static Load for Shear = 26 kips; Moment = 18 kips

2.2.3.8 Design Live Load = 57 kips.

2.3 **AFTER IMPLEMENTATION**

2.3.1 Return area around slab to original condition.

2.3.2 Provide 1 year installation warranty for cracking and spauling.

3 POINTS OF CONTACT

3.1 CONTRACTING OFFICER: The Contracting Officer (CO) shall be the Embassy General Services Officer

3.2 CONTRACTING OFFICER REPRESENTATIVE (COR) shall be the Embassy Facility Manager

4 PROPOSAL SUBMITTAL: **proposal shall be submitted to GSO, U.S. Embassy Djibouti.**

END SOW